DOCUMENT RESUME

ED 375 298 CE 067 460

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TITLE Adult Literacy, the Internet, and NCAL: An

Introduction.

INSTITUTION National Center on Adult Literacy, Philadelphia,

PA.

SPONS AGENCY Office of Educational Research and Improvement (ED),

Washington, DC.

PUB DATE 94 NOTE 25p.

PUB TYPE Guides - Non-Classroom Use (055)

EDRS PRICE MF01/PC01 Plus Postage.

DESCRIPTORS Adult Basic Education; *Adult Literacy; Databases;

*Educational Research; *Electronic Mail; *Information

Dissemination; Information Systems; *Literacy

Education; *Telecommunications

IDENTIFIERS *Internet

ABSTRACT

This document provides information on two services established on the Internet by the National Center on Adult Literacy (NCAL): electronic mail (e-mail) communication with NCAL and a Gopher server that makes it possible to access and download information, documents, and software relevant to adult literacy. A recent "NCAL Connections" article, "Doing Adult Literacy on the Internet: Building a Community" (Christopher Hopey, Karl Rethemeyer), describes Internet, e-mail, library and database gateways, bulletin boards, software distribution, Gopher, and routes to accessing the Internet. The article, "Finding NCAL's Internet Gopher," provides information on logging onto the Gopher. The next section describes three types of Internet service providers--Freenets, commercial services, and regional Internet providers -- and the different types of services each offers. Providers (companies and organizations that provide access to the Internet) are categorized by these types. This information is provided for each provider: name, community, contact person and address, phone, e-mail, access number, and Telnet access. A list of 20 recent books and articles about the Internet concludes the document. (YLB)



Adult Literacy, the Internet, and NCAL: An Introduction

Prepared by R. Karl Rethemeyer National Center on Adult-Literacy University of Pennsylvania

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Communicating with NCAL via the Internet

As part of NCAL's continuing effort to utilize telecommunications technology in research and dissemination activities, the Center has established two services on the international "network of networks," or Internet: e-mail communication with the Center and a Gopher server which makes it possible to access and download information, documents, and software relevant to adult literacy.

NCAL may now be contacted via Internet e-mail; the general address is Mailbox@literacy.upenn.edu. Enclosed in this packet is an informational brief, "E-Maili.ig to and from the Internet," which explains how commercial bulletin board users may contact the Center from their on-line services.

Gopher is a computer network protocol developed by the University of Minnesota to simplify distribution and retrieval of documents and software via the Internet. Using NCAL's Gopher server, you may learn more about the National Center on Adult Literacy and its many programs. You will also be able to retrieve fully formatted documents, including NCAL Connections, the Center's newsletter, complete policy briefs, occasional papers and technical reports, current research project abstracts, and listings of upcoming events relevant to the field of adult literacy. Current documents will be updated and new documents will be added frequently, so please log on regularly. See the brief, "Finding NCAL's Internet Gopher" in this packet for more information on logging onto NCAL's Gopher.

Despite the popularization of the Internet in the last year, there is still a great deal of confusion about how an individual or organization becomes part of the Internet community. To help alleviate some of that confusion, we have also included a recent NCAL Connections article on the Internet, a list of companies and organizations which provide access to the Internet, and a list of recent books and articles about the Internet.



Doing Adult Literacy on the Internet: Building a Community

(Reprinted from the Summer 1993 edition of NCAL Connections)

By Christopher Hopey and R. Karl Rethemeyer

For years one of the most common concerns in the field of adult literacy has been the lack of interaction between the research, policy, and practitioner communities. With the emergence of new computer networks, like the Internet, the opportunity to bridge this divide is at hand.

The Internet is the world's largest computer network, connecting millions of people to one another. The Internet is best described as an electronic city where thousands of people visit regularly to exchange mail, trade ideas, conduct business, or just chat. Its impact has been compared to the invention of movable type.¹

The Internet

The Internet was originally developed out of the research efforts of the Department of Defense (DoD) and National Science Foundation (NSF). NSF, tasked with developing a network capable of allowing university researchers to share time on their five supercomputers, began developing the Internet in the early 1980s. To facilitate data sharing, NSF used DoD computer protocols which were designed to allow any computer, regardless of manufacturer, to communicate with the supercomputers. Once a common language was established, professors and students found a variety of other uses for the network, beginning with electronic mail. As new uses developed, more and more universities and corporations joined, first in the United States and later world-wide. At last count, more than five million computers in forty countries were connected to the Internet.

The Internet has grown to support dozens of information services, but five have become ubiquitous: e-mail, library and database gateways, bulletin boards, software distribution, and an emerging technology called "Gopher."

E-Mail

E-mail is the most popular service on the Internet because, unlike regular mail, delivery and reply are both prompt and reliable. Like a telephone answering machine, e-mail allows the user to store and retrieve messages any time of day. Unlike any other form of electronic communications, the content is textual, allowing large amounts of data to be transmitted.

Library and Database Gateways

One of the most popular uses of Internet is to log onto electronic card catalogs or research databases. Approximately 350 major universities, public libraries, and government agencies, including the Library of Congress, allow Internet users access to their electronic card catalogs and databases. Users can search the databases, retrieve text (and, in some cases, graphics), and save the results to their own computer.



Bulletin Boards

The Internet hosts the world's largest electronic bulletin board, known as USENET. Currently, USENET hosts more than 3,000 discussions on topics ranging from the sublime to the ridiculous to the highly unusual. Currently, there are no discussion groups specifically for adult literacy practitioners or policymakers. However, there are several groups on education in general and specifically on educational technology.

Software Distribution

Increasingly, the Internet has become a channel through which software is distributed. Using a program called FTP, users can log onto computers that serve as archives for DOS, Windows, Macintosh, or UNIX software, search the archive for a specific program or for a program which fills a specific need, and then have a copy of the program placed on their hard drive or diskette. Most software is free (freeware) or offered at low cost (shareware), and all programs may be "test driven" before final purchase.

Gopher

Most Internet services are not well-known or well-publicize2; Gopher solves this problem. The University of Minnesota has developed software which integrates the "gateways" and FTP services into one program known as Gopher (after the Minnesota's Golden Gophers). Gopher is unique because it offers a directory of Gopher servers, collectively known as Gopherspace. In addition, Gopher allows users to search all of the servers in Gopherspace for information on a given topic or for a specific piece of software.

NCAL has recently joined Gopherspace by setting up its own server. NCAL distributes many of its documents via Gopher, including this issue and back issues of NCAL Connections. NCAL's research documents and papers as well as information on adult literacy conferences are also available. NCAL's Gopher can also point you to other Gopher resources relevant to adult literacy.

Accessing the Internet

"Great," you are thinking, "how do I try it?" Unfortunately, access to the Internet is still problematic because there are few publicly available access points. However, here are a few routes:

Colleges and Universities

Most universities, many community colleges, and some public libraries and corporations offer direct (i.e., 24 hour a day, non-modem) access to the Internet. If you have access to computer facilities at one of these organizations, ask the network or lab administrator if the facility is Internet-capable. If so, the administrator should also be able to configure your computer for Internet operations and provide you with the relevant software. Much of the software needed to access Internet resources is available free of charge.

Modem Access to Internet

For the modem-dependent, do not despair; a number of options are available. First, nine communities already provide free or low-cost Internet access, though many of these services do not offer the full range of Internet services. In addition, several telecommunications vendors are offering modem access to the Internet at prices comparable to those charged by the major commercial on-line services (see below).



Commercial On-line Services

Finally, commercial "on-line" networks such as America On-Line (800-827-6364), Compuserve (800-848-8199), Prodigy (800-776-0840), Delphi (800-695-4005), and GEnie (800-638-9636) are now in wide use and offer many services, including limited Internet access.

Connecting to a commercial on-line service is easy. Many local computer stores sell low-cost sign-up kits, and a few commercial services offer their sign-up kits for free. Installation and use is relatively trouble-free and straightforward.

In addition to Internet access, commercial on-line vendors offer services and information for both professional and personal use. Some services cater to education, while others are geared towards industry, personal productivity, or entertainment. A few offer services related to adult literacy.

Costs for commercial on-line services vary widely. Many charge a setup fee, others have a basic monthly rate, and some charge based on connection time. Basic monthly rates range from \$4.95 to \$20.00 a month. The hourly rates for use range from \$5.00 to \$15.00 per hour based on the time of day. Basic rates usually include 1-5 free hours of service. Many of the services offer a trial membership for free or at a reduced rate.

In conclusion, policymakers and researchers are now exploring new ways to connect the Internet community to the adult literacy community. The possibilities are just now being explored; Tech Views will continue to keep you abreast of the field's progress. See the Fall issue of NCAL Connections for more details on accessing and using the Internet.

Endnotes

¹Broad, William J. "Doing Science on the Network: A Long Way From Gutenberg." The New York Times. May 18, 1993, C1.



E-mailing to and from the Internet

Because e-mail is such a popular feature of any on-line service, most major on-line providers allow their users to send and receive e-mail from users on the Internet. However, in order to send e-mail to an Internet user from a commercial service or vice versa, you must make changes to the recipient's e-mail addresses. Listed below are suggested changes.

E-mailing from commercial services to the Internet:

America On-line (AOL): Enter the Internet address without any changes.

Example: Internet address = doe@literacy.upenn.edu

AOL address: doe@literacy.upenn.edu

Applelink: Add the extension "@internet#" following the Internet address.

Example: Internet address = doe@literacy.upenn.edu

Applelink address: doe@literacy.upenn.edu@internet#

Compuserve: Enter ">INTERNET:" followed by a space and the Internet address.

Example: Internet address = doe@literacy.upenn.edu

Compuserve address: >INTERNET: doe@literacy.upenn.edu

Note: INTERNET must be in capital letters

Delphi Internet Services: Enter the Internet address without any changes.

Example: Internet address = doe@literacy.upenn.edu

Delphi address: doe@literacy.upenn.edu

GEnie: Add the extension "@inet#" to the Internet address.

Example: Internet = doe@literacy.upenn.edu

GEnie address: doe@literacy.upenn.edu@inet#

Prodigy: Enter the Internet address without any changes.

Example: Internet = doe@literacy.upenn.edu

Prodigy address: doe@literacy.upenn.edu

NOTE: REQUIRES THE PRODIGY MAIL MANAGER SOFTWARE.



E-mailing from the Internet to commercial services:

America On-line (AOL): Add "@aol.com" to the America On-line address.

Examples:

AOL address = John Doe

Internet: John Doe@aol.com

AOL address = Johndoe Internet: Johndoe@aol.com

AppleLink: Add "@applelink.apple.com" to the AppleLink address.

Example:

AppleLink address = D9876

Internet: D9876@applelink.apple.com

Delphi Internet Services: Enter the Delphi address without any changes.

Example:

Delphi address = Doe@delphi.com

Internet: Doe@delphi.com

Compuserve: Replace the comma in the Compuserve address with a period and add

"compuserve.com."

Example:

Compuserve address = 98765,321

Internet: 98765.321@compuserve.com

GEnie: Add "@genie.geis.com" to the GEnie address.

Example:

GEnie address = Johndoe

Internet: johndoe@genie.geis.com

Prodigy: Add "@prodigy.com" to the Prodigy address.

Example:

Prodigy address = DKGS71A
Internet: DKGS71A@prodigy.com
NOTE: THE PRODIGY MEMBER MUST HAVE PRODIGY'S MAIL

MANAGER SOFTWARE IN ORDER TO RECEIVE INTERNET MESSAGES.



Finding NCAL's Internet Gopher

Gopher is a computer network protocol developed by the University of Minnesota to simplify distribution and retrieval of documents and software via the international "network of networks," or Internet. NCAL recently established a Gopher server in order to distribute information about the National Center on Adult Literacy and its programs. From this server you will be able to retrieve fully formatted documents, including NCAL Connections (the Center's newsletter), complete policy briefs, occasional papers and technical reports, current research project abstracts, and listings of upcoming events relevant to the field of adult literacy.

There are several different ways to access Gopher. Below you will find a list of different access points and methods. We recommend contacting your network or computer laboratory administrator before attempting to install Gopher on your computer.

1. If you already have Gopher installed on your hard drive or know how to use a telnetable Gopher client:

NCAL's server may be found on the "Home Gopher Server" in the folder/directory "Other Gopher and Information Servers/All Gopher Servers in the World" under the name "National Center on Adult Literacy." Or you may point your Gopher client at "litserver.literacy.upenn.edu."

2. If your computer is already configured to use Internet communications software (i.e., telnet, ftp, netnews, etc.):

Gopher clients (i.e., software used to communicate with computers using Gopher) may be obtained free of charge via FTP (file transfer protocol) from the University of Minnesota. FTP to "boombox.micro.umn.edu"; the Gopher clients are stored in the "pub/gopher" folder/directory. Currently, clients are available for the following operating systems: Macintosh (TurboGopher is the best Mac version), Windows, DOS (several versions of varying quality), OS/2, NeXT, Unix, and VMS. Installation instructions are included with the client software; make sure to download any "readme" files as well.

Once you have installed and started up your Gopher client, NCAL's server may be found on the "Home Gopher Server" in the folder/directory "Other Gopher and Information Servers/All Gopher Servers in the World" under the name "National Center on Adult Literacy."

IMPORTANT: to work properly, your computer or LAN must be connected directly to the Internet or have access to a Serial Line Internet Protocol (SLIP) or Point-to-Point Protocol (PPP) modem service. Additionally, you must have the proper packet drivers (software which facilitates communication via the Internet). If you are not sure your computer is properly configured for Internet communications, consult your network or computer lab administrator before attempting to install or use Gopher.



3. If you know how to start a telnet session, either from a machine directly connected to the Internet or by using a modem:

There are several telnetable Gopher clients (i.e., clients which may be accessed using a terminal emulation program; some terminal emulators are designed for computers that are directly connected to the Internet, others may be used with a modem):

Hostname	IP#	Login	Area
consultant.micro.umn.edu	34.84.132.4	gopher	North America
gopher.uiuc.edu	128.174.33.160	gopher	North America
panda.uiowa.edu	128.255.40.201	panda	North America
gopher.sunet.se	192.36.125.2	gophei	Europe
info.anu.edu.au	150.203.84.20	info	Australia
gopher.chalmers.se	129.16.221.40	gopher	Sweden
tolten.puc.cl	146.155.1.16	gopher	South America
ecnet.ec	157.100.45.2	gopher	Ecuador
gan.ncc.go.jp	160.190.10.1	gopher	Japan

Telnet clients do not allow you to download fully formatted documents. However, the telnet client can send any plain text document to your e-mail account. If you choose to e-mail yourself any of NCAL's longer documents, be sure to choose the text version.

NCAL's server may be found on the "Home Gopher Server" in the folder/directory "Other Gopher and Information Servers/All Gopher Servers in the World" under the name "National Center on Adult Literacy."

IMPORTANT: you may have access to telent and not realize it. Many e-mail accounts are accessed using telnet. If, to access your e-mail account, you must enter a long, period-separated hostname like those listed above, you may have access to telnet. Check with your network administrator for more details. Currently, none of the major commercial bulletin board services offer telnet services, however.

4. If you are not using any of these services currently:

If you have a local area network or computer laboratory in your place of work, public library, or literacy program, check with the network or laboratory administrator to see if you can gain access to the Internet from their facility. You may have Internet services but not realize that you do.

Even if you have no affiliations with Internet-capable institutions, you may still be able to access the Internet. Any personal computer equipped with a modem (a device which allows computers to exchange information with one another via plain phone lines) can communicate with the Internet. In order to do so, you will need to subscribe to either a commercial on-line service or a community Internet access point (often called a Freenet). As of this writing, the two largest providers of commercial access to Gopher services are Delphi Internet Services and America On-line. See the NCAL document "Modem Access Points to the Internet" for more information.



5. If all else fails:

Contact Karl Rethemeyer

E-mail: Rethemeyer@literacy.upenn.edu
Fax (215) 898-9804
Surface mail: National Center on Adu

National Center on Adult Literacy 3910 Chestnut Street Philadelphia, PA 19104-3111

No phone inquiries, please.



Freenet and Commercial Access Points to the Internet

Introduction

Despite the growing popularity of the Internet as a telecommunication tool, finding a service provider that offers individuals or organizations access to the Internet is still not easy. Using the Internet, we have compiled the following list of access providers.

To utilize any of these services you will need to have, at minimum, the following equipment: a personal computer and a modem (a device that allows computers to exchange data with one another via plain phone lines). Modems come in different speeds; modem speed is usually expressed either in bits per second (bps) or baud rate (both of which measure the amount of data a modem can transfer in one second). Baud rate and bits per second are (roughly) synonymous. Most people use 2400 bps modems; however, 9600 and 14,400 bps modems are becoming cheaper and are preferable for accessing the Internet.

You may also need terminal emulation software (software that controls the modem and coordinates communication between your computer and the computer on the other end of the phone line). The most popular terminal emulation programs are ProComm for DOS and Windows-based computers and Microphone II for Macintosh computers. Some commercial services provide terminal emulation software with their service, so consult your service provider before purchasing a package.

There are three types of Internet service providers: Freenets, commercial services, and regional Internet providers. Each offers different types of services:

Freenet Providers:

As the name implies, Freenets are free (or very low cosi) community access points to the Internet. Each Freenet site provides Internet e-mail accounts for their registered users and a variety of community-oriented on-line services—everything from bulletin boards to library card catalogs. Additionally, some sites offer access to Internet data and navigation tools such as Gopher, WAIS, and Telnet. Though these sites are focused on one community, anyone may join, regardless of location. For those living outside a Freenet's "home" community, the drawback to these services is that one must pay long distance charges to gain access to the system.

Commercial Dial Up Access to the Internet:

There are two types of commercial services: Dial-up e-mail and dial-up IP. Services that offer dial-up e-mail, as the name suggests, provide only e-mail access to the Internet. While one may access a growing number of databases via e-mail requests, e-mail only accounts do not offer access to the most powerful internet tools like Gopher, Telnet, or WAIS. However, you may access dial-up e-mail accounts using a simple telecommunications program. Dial-up IP accounts offer full access to all the Internet's tools and data sources. You will need to acquire special moder software to use dial-up IP. Check with your service provider for more details. Both "e-mail orly" and IP providers usually have local access numbers for their services in metropolitan areas of 50,000 to 100,000 inhabitants.

Many commercial providers offer other services in addition to Internet access—anything from on-line stock quotes to airline ticket reservation services. The list below only highlights the type of Internet access a provider offers.



Regional Internet Providers:

The regional Internet providers are primarily responsible for connecting institutional local area networks (LANs) to the Internet. If you wish to connect your LAN to the Internet, you will need to contact one of the providers listed below. Regional providers can help you determine what level of service and what type of equipment you will need to buy. However, the regional providers can also steer individuals toward dial-up service providers. In fact, some offer dial-up access directly (those which do are listed in the commercial dial-up list). If you have trouble determining what type of service you need and where to get it, the regional provider for your area is your best resource.

This list is current as of the date listed at the bottom of this page. If you know of or discover a service that should be listed here, please contact Karl Rethemeyer at NCAL (E-mail: rethemeyer@literacy.upenn.edu; phone: (215) 898-2100). Currently, the InterNIC, an organization created by the Naticnal Science Foundation to help groups and individuals get connected to and use the Internet, is compiling a comprehensive list of service providers; NCAL will update this list as the InterNIC's information becomes available. The InterNIC also provides information about the Internet and the various ways to join the Internet community. For more information about the InterNIC and its services, call 800-444-4345 between 6 AM and 6 PM Pacific Time.

The National Center on Adult Literacy and the University of Pennsylvania neither supports nor encorses the organizations listed below.

Freenet Providers:

Note: "Demo" sites may not be available to the public yet or may not offer some of the services mentioned above. Contact the service provider for information on service availability.

BIG SKY TELEGRAPH
Community: Dillon, Montana
Contact Person: Frank Odasz
Wasser Montana College

Western Montana College of the University of Montana Dillon, MT 59725

Phone: (406)683-7338

E-mail: franko@bigsky.dillon.mt.us Access number: (406) 683-7680

(1200 baud)

Telnet Access: 192.231.192.1 (not receiving guest telnet connections currently)

BUFFALO FREE-NET

Community: Buffalo, New York

(Demo System)
Contact Person: James Finamore

Town of Tonawanda 1835 Sheridan Drive Buffalo, NY 14223

Phone: (716) 877-8800 ext. 451

E-mail: finamore@ubvms.cc.buffalo.edu

Access Number: (716) 645-6128 Telnet Access: freenet.buffalo.edu



CAPACCESS: THE NATIONAL CAPITAL AREA PUBLIC ACCESS NETWORK

Community: Washington, DC Address: The George Washington

University

2002 G. Street, Suite B-1, NW Washington, DC 20052

Phone: (202) 994-4245 Fax: (202) 994-2317 E-mail: info@cap.gwu.edu Access number: (202) 785-1523

300/1200/2400/9600/14400 Baud

Telnet Access: cap.gwu.edu

THE CLEVELAND FREE-NET

Community: Cleveland, Ohio Contact Person: Jeff Gumpf CWRU Information Network Services Cleveland, Ohio 44106

Phone: (216) 368-2982 E-mail: jag@po.cwru.edu

Access Number: (216) 368-3888 -300/1200/2400 Baud Telnet Access: freenet-in-a.cwru.edu

COLUMBIA ONLINE INFORMATION

NETWORK (COIN)

Community: Columbia, MO Address: COIN

Daniel Boone Regional Library

P.O. Box 1267 100 West Broadway Columbia, Mo 65205-1267

Phone: (314) 443-3161

E-mail: ccwam@mizzoui.missouri.edu

Access Number: (314)-884-7000 300/1200/2400 Baud

Telnet Access: bigcat.missouri.edu

DENVER FREE-NET

Community: Denver, Colorado Contact Person: Drew Mirque 4200 East Ninth Ave. Campus Box C-288 Denver, CO 80210

Phone: (303) 270-4300

E-mail: drew@freenet.hsc.colorado.edu

Access Number: (303) 270-4865 Telnet Access: freenet.hsc.colorado.edu.

Login: guest.

THE HEARTLAND FREE-NET

Community: Peoria, Illinois Contact Person: Karen Eggert Lovelace Technology Center Peoria, Illinois 61625

Phone: (309) 677-2544

E-mail: xxadm@heartland.bradley.edu Access Number: (309) 674-1100 Telnet Access: heartland.bradley.edu

ITHACA FREENET

Community: Ithaca, NY Contact Person: Jean Currie

215 North Cayuga Street Ithaca, NY 14850

Phone (607) 273-9106

E-mail scrlc@scrlc.org

Organizing committee to establish Ithaca Freenet. Service not yet available.

LORAIN COUNTY FREE-NET

Community: Elyria, Ohio Contact Person: Thom Gould 32320 Stony Brook Drive Avon Lake, Ohio 44012 Phone: 1-800-227-7113 Ext. 2451

or 216-277-2451

E-mail: aa003@freenet.lorain.oberlin.edu

Access Number: (216) 366-9721 300/1200/2400 Baud

Telnet Access: freenet.lorain.oberlin.edu.

Login: guest.



MEDINA COUNTY FREE-NET

Community: Medina, Ohio Contact Person: Gary Linden

Medina Gen. Hosp Project Director

Medina General Hospital 1000 E. Washington Street

P.O. Box 427

Medina, Ohio 44258-0427

Phone: (216) 725-1000 Ext. 2550 E-mail: aa001@medina.freenet.edu Access Number: (216) 723-6732 300/1200/2400 Baud

Telnet Access: (not receiving guest telnet

connections currently)

NATIONAL CAPITAL FREE-NET

Community: Ottawa, Canada Contact Person: David Sutherland Computing Services Carleton University Ottawa CANADA K1S 5B6

Phone: (613) 788-2600 ext. 3701 E-mail: aa001@freenet.carleton.ca Access Number: (613) 780-3733 Telnet Access: freenet.carleton.ca

RIO GRANDE FREENET

Community: El Paso, TX; Juarez, Mexico, and the Upper Rio Grande

Contact: Don Furth P.O. Box 20500

El Paso Community College

El Paso, TX 79998 Phone: (915) 594-2190

E-mail: aa100@rgfn.epcc.edu Access Number (915) 775-5600 300/1200/2400/9600 baud

Telnet Access: rgfn.epcc.edu

SENDIT

Community: North Dakota educators

Phone: (701) 237-8109

E-mail: sackman@sendit.nodak.edu Telnet Access: sendit.nodak.edu TALAWANDA LEARNING COMMUNITY

NETWORK

Community: Oxford, OH

Contact Person: Robert Pickering 331 West Church Street Oxford, OH 45056

E-mail: rap@tlcnet.muohio.edu

Access Numbers:

(513) 529-6114 (2400 baud) (513) 529-4999 (9600 baud)

Telnet Access: tlcnet.muohio.edu

TALLAHASSEE FREE-NET

Community: Tallahassee, Florida

(Demo System)

Contact Person: Hilbert Levitz
Dept. of Computer Science
Florida State University
Tallahassee, FL 32306

Phone: (904) 644-1796 E-mail: levitz@cs.fsu.edu

Access Number: (demo system, Internet

access only)

Telnet Access: freenet.fsu.edu (not receiving guest telnet connections currently)

TRAVERSE CITY FREE-NET

Community: Traverse City, MI Contact Person: Connie Minster

Northwestern Michigan College

Information Technology Department Traverse City Free-Net

1701 East Front Street Traverse City, MI 49684

E-mail: connie@nmc.edu
Telnet Access: leo.nmc.edu

TRISTATE ONLINE

Community: Cincinnati, Ohio Contact Person: Michael King

TSO System Administrator Cincinnati Bell Directory. Inc.

Room 102-2000 201 East 4th Street

Cincinnati, Ohio 45201-2301

Phone: (513) 397-1396

E-mail: sysadmin@cbos.uc.edu Access Number: 513-579-1990

Telnet Access: cbos.uc.edu. Select option

CBOS

VICTORIA FREE-NET

Community: Victoria, British Columbia
Contact Person: Gareth Shearman
Victoria Free-Net Association

C/O Vancouver Island Advanced
Technology Centre (VIATC)

Suite 203-1110 Government Street Victoria, British Columbia V8W 1Y2 CANADA

Phone: (604) 385-4302 E-mail: shearman@cue.bc.ca Access Number: (604) 595-2300 Telnet Access: freenet.victoria.bc.ca

VIRGINIA PUBLIC EDUCATION

NETWORK

Community: Educators in Virginia

Address: Virginia Department of Education

James Monroe Building

22nd floor

101 North 14th Street Richmond, VA 23216

Telnet Access: vdoe386.vak12ed.edu

THE YOUNGSTOWN FREE-NET

Community: Youngstown, Ohio Contact Person: Lou Anschuetz YSU Computer Center

Youngstown, Ohio 44555

Phone: (216) 742-3075 E-mail: lou@yfn.ysu.edu

Access Number: (216) 742-3072 - 300/1200/2400 Baud

Telnet Access: yfn.ysu.edu (not receiving

telnet connections currently)

Other Dial-up Services Free to Practitioners with K12 Affiliations:

K12Net 3501 County Road Stanley, NY 14561

Contact: Jack Crawford Phone: (716) 526-6431 TeachNet

New York Institute of Technology

Central Islip Campus Building 66, Room 205 Central Islip, NY 11722 Contact: Barbara Zayes

Phone: (516) 348-3317; (800) 462-9041

Commercial Dial Up Access to the Internet:

a2i Communications E-mail: info@rahul.net Area Served: San Jose, CA

(408 area code)

Services: Dialup e-mail

Anterior Technology
Phone: (415) 328-5615
E-mail: info@radiomail.net

Area Served: San Francisco bay area

Services: Dialup e-mail

America On-line, Inc.
Phone: (800) 827-6364
E-mail: info@aol.com
Area Served: US and Canada
Services: Dialup e-mail.

The Black Box

Phone: (713) 480-2684

E-mail: mknewman@blkbox.com

Area Served: Area code 713 (Houston, TX)

Services: Dialup E-mail

National Center on Adult Literacy

Revised December 3, 1993



BIX

Phone: (800) 695-4775

(617) 354-4137

E-mail: TJL@mhis.bix.com

Area Served: Area code 617; local dialup

connections outside 617 available through TYMNET. Services: Dialup e-mail.

CERFnet

Phone: (800) 876-2373

(619) 455-3900

E-mail: help@cerf.net

Services: Network connections, national

dialup IP, dialup e-mail.

Capcon Connect

Phone: (202) 466-7057

E-mail: jhagerman@capcon.net Area Served: Area code 202. Services: Dialup e-mail, Dialup IP

Channel 1

Phone: (617) 864-0100

E-mail: whitehrn@channel1.com Area Served: Massachusetts Services: Dialup e-mail.

CLASS

Cooperative Agency for Library Systems and

Services

Phone: (800) 488-4559 E-mail: class@class.org

Area Served: US

Services: Dialup access for libraries in the

US.

Community News Service Phone: (719) 579-9120 E-mail: klaus@cscns.com

Area Served: Colorado Springs, CO (719

area code)

Services: Dialup e-mail.

Mational Center on Adult Literacy

CompuServe Information System

Phone: (800) 848-8990

(614) 457-0802

E-mail: postmaster@csi.compuserve.com

Services: Dialup e-mail.

The Cyberspace Station

Phone: (619) 944-9498 ext. 626

E-mail: help@cyber.net Area Served: San Diego, CA Services: Dialup e-mail

DASNET

Phone: (408) 559-8649 E-mail: postmaster@das.net Area Served: California Services: Dialup E-mail

Delphi Internet Services, Inc. Massachusetts Avenue

Cambridge, MA 02138 Contact: Rusty Williams Phone: (800) 544-4005

Area Served: US

Services: Dial-up e-mail, dial-up IP

Express Access Online Communications

Service

Phone: (301) 220-2020 E-mail: info@digex.com

Services: Dialup e-mail in the Northern VA, Baltimore MD, Washington DC areas (area

codes 202, 310, 410, 703).

EZ-E-Mail

Phone: (603) 672-0736 E-mail: info@lemuria.sai.com Area Served: US and Canada Services: Dialup e-mail.

Halcyon

Phone: (206) 426-9298

E-mail: info@remote.halcyon.com

Area Served: Seattle, WA Services: Dialup e-mail.

HoloNet

Phone: (510) 704-0160 E-mail: info@holonet.net

Area Served: Berkeley, CA (area code 510)

Services: Dialup e-mail.

Institute for Global Communications (IGC)

Phone: (415) 442-0220 E-mail: support@igc.apc.org

Services: Dialup e-mail; affiliated with PeaceNet, EcoNet, and ConflictNet; member

of the Association for Progressive

Communications (APC).

IDS World Network Phone: (401) 884-7856 E-mail: sysadmin@ids.net

Area Served: East Greenwich, RI; northern

RI

Services: Dialup e-mail, dialup IP

JvNCnet

Contacts: Sergio F. Heker

Allison Pihl

Phone: (800) 358-4437

(609) 258-2400

E-mail: market@jvnc.net

Services: Network connections, national

dialup IP, dialup e-mail.

MCI Mail Engineering Phone: (800) 444-6245

(202) 833-8484

E-mail: 2671163@mcimail.com

3248333@mcimail.com

Area Served: nation Services: Dialup e-mail.

MichNet

Contact: Jeff Ogden Phone: (313) 764-9430 E-mail: jogden@merit.edu

Area Served: Michigan Services: Dialup IP

Milwaukee Internet X
Pnone: (414) 962-8172
E-mail: sysop@mixcom.com

Area Served: Milwaukee area Services: dialup e-mail

MindVox

Phone: (212) 988-5987 E-mail: info@phantom.com

Area Served: New York City (area codes

212, 718)

Services: Dialup e-mail.

MSEN, Inc.

Contact: Owen Scott Medd Phone: (313) 998-4562 E-mail: info@msen.com

Area Served: U.S.

Services: Network connections, dialup IP,

dialup e-mail.

New Mexico Technet Phone: (505) 345-6555

E-mail: reynolds@technet.nm.org

Area Served: New Mexico Services: Dialup e-mail.

Net Access

Contact: Avi Freedman Phone: (215) 960-0972

Access Number: (215) 836-4832 (offers free

demo account)

Area Served: SE Pennsylvania, Southern

New Jersey, Delaware

Services: Dialup e-mail; dialup Gopher,

Telnet, etc.

Netcom Online Communications Services

Phone: (408) 554-8649 E-mail: info@netcom.com

Area served: San Jose-San Francisco, CA

Services: Dialup e-mail, dialup IP

Old Colorado City Communications

Phone: (719) 632-4848 E-mail: dave@oldcolo.com Area Served: Colorado Services: Dialup e-mail.

Panix Public Access Unix Contact: Alexis Rosen Phone: (212) 877-4854 E-mail: alexis@panix.com

Contact: Jim Baumbach Phone: (718) 965-3768 E-mail: jsb@panix.com

Area Served: New York City, NY (area

codes 212, 718) Services: Dialup e-mail.

Performance Systems International, Inc.

(PSI)

Phone: (800) 827-7482 (703) 620-6651 E-mail: info@psi.com

Services: Network connections, dialup IP,

dialup e-mail.

Portal Communications, Inc. Phone: (408) 973-9111 E-mail: cs@cup.portal.com info@portal.com

Area Served: Northern California (area codes

408, 415)

Services: Dialup e-mail.

RISCnet

Contact: Andy Green Phone: (401) 885-6855 E-mail: info@nic.risc.net Area served: Rhode Island

Services: Dialup IP

Seattle Online

Phone: (206) 328-2412 E-mail: bruceki@online.com Area Served: Seattle, WA Services: Dialup e-mail.

Sugar Land Unix Phone: (713) 438-4964 E-mail: info@NeoSoft.com

Area Served: Texas (Houston metro area)

Services: Dialup e-mail.

UUNET Technologies, Inc. Phone: (800) 488-6384 (703) 204-8000

E-mail: info@uunet.uu.net

Services: Network connections, dialup e-

mail; Alternet is a product of **UUNET** Technologies.

Village of Cambridge

Phone: (617) 494-5226 (voice) (617) 252-0009 (modem)

E-mail: service@village.com Area Served: Massachusetts Services: Dialup e-mail

Whole Earth Lectronic Link (WELL)

Phone: (415) 332-4335 E-mail: info@well.sf.ca.us

Area Served: San Francisco Bay Area (area

code 415)

Services: Dialup e-mail.

The WORLD

Software Tool & Die 1330 Beacon Street Brookline, MA 02146 Phone: (617) 739-0202 Fax: (617) 739-0914

E-mail: office@world.std.com Access Number: (617) 739-9753

Area Served: US

Services: Dialup e-mail, dial-up IP



Regional Internet Providers:

Advanced Network and Services Inc. (ANS)

Phone: (800) 456-8267 (313) 663-2482

E-mail: info@ans.net Region: nationwide

BARRNET

Pine Hall Room 115 Stanford, CA 94305-4122 Contact: William Yundt Phone: (415) 723-3104

E-mail: GD.why@forsythe.stanford.edu

Region: San Francisco area

BBN Systems and Technologies

10 Moultin Street Cambridge, MA 02138 Phone: (617) 873-8730

E-mail: nearnet-join@nic.near.net

Region: Maine, New Hampshire, Vermont, Connecticut, Rhode Island, Massachusetts

CERFnet PO Box 85608

San Diego, CA 92186-9784 Phone: (800) 876-2373 E-mail: help@cerf.net Region: Southern California

CICnet ITI Building

2901 Hubbard Drive, Pod G Ann Arbor, MI 48105 Phone: (313) 998-6103 E-mail: infor@cic.net

Region: Illinois, Iowa, Minnesota, Wisconsin, Michigan, Ohio, Indiana

Colorado Supernet CSM Computer Center Colorado School of Mines 1500 Illinois Street

Golden, CO 80401 Phone: (303) 273-3471 E-mail: info@csn.org Region: Colorado

National Center on Adult Literacy

CONCERT PO Box 12889

3021 Cornwallis Read

Research Triangle Park, NC 27709

Phone: (919) 248-1404 E-mail: jrr@concert.net Region: North Carolina

Infolan

Contact: George Abe Phone: (310) 335-2600 E-mail: abe@infonet.com Region: nationwide

INet

Contact: Dick Ellis Phone: (812) 855-4240 E-mail: ellis@ucs.indiana.edu

Region: Indiana

JVNCNet 6 von Neumann Hall Princeton University Princeton, NJ 08544 Contact: Sergio Heker Phone: (609) 258-2400 E-mail: market@jvnc.net

Region: Northeastern US

Los Nettos

Information Sciences Institute 4676 Admiralty Way Marina Del Rey, CA 90292

Phone: (301) 822-1511

E-mail: los-nettos-request@isi.edu

Region: Los Angeles area

Merit

2200 Bonisteel Boulevard Ann Arbor, MI 48109-2112 Phone: (313) 764-9430 E-mail: jogden@merit.edu

Region: Michigan



MichNet

Contact: Jeff Ogden Phone: (313) 764-9430 E-mail: jogden@merit.edu

Region: Michigan

MIDnet 29 WESC

University of Nebraska Lincoln, NE 68588 Phone: (402) 472-5032 E-mail: dmf@westie.unl.edu

Region: Nebraska, Oklahoma, Arkansas, South Dakota, Iowa, Kansas, Missouri

MRnet

511 11th Avenue South, Box 212

Minneapolis, MN 55415 Phone: (612) 342-2570 E-mail: info@mr.net Region: Minnesota

MSEN

628 Brooks Street Ann Arbor, MI 48103 Phone: (313) 998-4562 E-mail: info@msen.com

Pagion: nationwide (Michigan primarily)

NSFNET Referrals from:

InterNIC Information Services

Phone: (800) 444-4345

(619) 455-4600

E-mail: info@internic.net Region: nationwide

NEARnet

Netcom Online Communications Services

4000 Moorepark Avenue, #209

San Jose, CA 95117 Phone: (408) 554-8649

E-mail: ruthann@netcom.com

Region: California

netIllinois

Bradley University 1501 W. Bradley Avenue

Peoria, IL 61625 Contact: Joel Hartman Phone: (309) 677-3100 E-mail: joel@bradley.edu

Region: Illinois

NevadaNet

University of Nevada System

Computer Services 4505 Maryland Parkway Las Vegas, NV 89154 Phone: (702) 739-3557

Region: Nevada

NorthWestNet

2435 233rd Place, NE Redmond, WA 98053 Phone: (206) 562-3000 E-mail: ehood@nwnet.net

Region: Oregon, Washington, Wyoming, Alaska, Idaho, Montana, North Dakota

NYSERNet

200 Elwood Davis Road

Suite 103

Liverpool, NY 13088-6147 Phone: (315) 453-2912 E-mail: info@nysernet.org

Region: New York

OARnet

Ohio Supercomputer Center 1224 Kinnear Road Columbus, OH 43085 Phone: (614) 292-9248

E-mail: alison@osc.edu

Region: Ohio

PACCOM

Contact: Torben Nielsen Phone: (808) 956-3499 E-mail: torben@hawaii.edu

Region: Hawaii



PREPnet

305 S. Craig Street, 2nd Floor Pittsburgh, PA 15123 Phone: (412) 268-7870

E-mail: twb+@andrew.cmu.edu

Region: Pennsylvania

PSCNet

Pittsburgh Supercomputing Center 305 S. Craig Street, 2nd Floor

Pittsburgh, PA 15123 Phone: (412) 268-4960 E-mail: hastings@psc.edu Region: Eastern US

Performance Systems International, Inc (PSI)

Phone: (800) \$27 7482 (703) 620 6651 E-mail: info@psi.com

Region: nationwide

RISCnet

Contact: Andy Green Phone: (401) 885-6855 E-mail: info@nic.risc.net Region: Rhode Island

SDSCnet

Contact: Paul Love Phone: (619) 534 5043

E-mail: loveep@Ssds.sdsc.edu

Region: California

Sesquinet

Office of Networking and Computing

Rice University

Houston, TX 77251-1892 Phone: (713) 527-4988 E-mail: farrell@rice.edu

Region: Texas

SprintLink

Contact: Bob Doyle Phone: (703) 904-2167 E-mail: bdoyle@icm1.icp.net

Region: nationwide

SURAnet

1353 Computer Science Center 8400 Baltimore Boulevard College Park, MD 20740-2498

Phone: (301) 982-4600 E-mail: info@sura.net

Region: Southeastern US & Puerto Rico

THEnet

Texas Higher Education Network

Information Center Austin, TX 78712 Phone: (512) 471-2444 E-mail: info@nic.the.net

Region: Texas

VERnet

Academic Computing Center

Gilmer Hall

University of Virginia Charlottesville, VA 22903 Phone: (804) 924-0616 E-mail: jaj@virginia.edu

Region: Virginia

WESTnet

601 S. Howes Street, 6th Floor South

Colorado State University Fort Collins, CO 80523 Phone: (303) 491-7260

E-mail: pburns@yuma.acns.colostate.edu Region: Arizona, Colorado, Idaho, New

Mexico, Utah, Wyoming

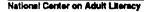
World dot Net Internetworks, Inc. Phone: (206) 576-7147 E-mail: info@world.net

region: Idaho, Oregon, Washington

WiscNet

1210 W. Dayton Street Madison, WI 53706 Phone: (608) 262-8874 E-mail: dorl@macc.wisc.edu

Region: Wisconsin



WVnet

Wynet
837 Chestnut Ridge Road
Morgantown, WV 26505
Contact: Harper Grimm
Phone: (304) 293-5192
E-mail: cc011041@wvnvm.wvnet.edu
Region: West Virginia



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